

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

M-CSF-SPECIFIC MONOCLONAL ANTIBODY AND USES THEREOF

the specification of which was filed on July 7, 2006, as Application No. 10/585,459.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to herein.

I acknowledge the duty to disclose all information known to me that is material to patentability in accordance with Title 37, Code of Federal Regulations, § 1.56.

FOREIGN PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

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☒ such foreign application have been filed as follows:

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(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

Application Number	Country	Date of Filing (dd/mm/yyyy)	Priority Claimed Under 35 USC 119
			___ Yes No ___
			___ Yes No ___
			___ Yes No ___

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(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

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PCT/US2005/000546	PCT	January 6, 2005

CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATIONS

I hereby claim priority benefits under Title 35, United States Code §119(e), of any United States provisional patent application(s) listed below:

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Application Number	Date of Filing (dd/mm/yyyy)	Priority Claimed Under 35 USC 119
60/535,181	January 7, 2004	<u> x </u> Yes No <u> </u>
60/576,417	June 2, 2004	<u> x </u> Yes No <u> </u>
		<u> </u> Yes No <u> </u>

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §120 of the United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information that is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56 which became available to me between the filing date of the prior application and the national or PCT international filing date of this application:

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I hereby appoint:

All practitioners at Customer Number **04743**

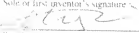
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Please mail all correspondence to Novartis AG whose address is:

Intellectual Property R-338
P.O. Box 8097
4560 Horton Street
Emeryville, California 94662-8097

Please direct telephone calls to: (510) 655-8730.

Please direct facsimiles to: (510) 655-3542.

Full name of sole or first inventor	
Cheng Liu	
Signature of first inventor's signature	Date
	April 14, 2007
Residence	
Emeryville, California	
Citizenship US	
Mailing Address	
P.O. Box 8097	
4560 Horton Street	
Emeryville, California 94662-8097	

Full name of second inventor, if any	
Deborah L. Zimmerman	
Signature of second inventor's signature	Date
	
Residence	
Emeryville, California	
Citizenship US	
Mailing Address	
P.O. Box 8097	
4560 Horton Street	
Emeryville, California 94662	

Full name of third inventor, if any Gregory M. Harrowe	
Third inventor's signature	Date
Residence Eugene Oregon	
Citizenship US	
Mailing Address 2055 Sunrise Blvd. Eugene, Oregon 97405	

Full name of fourth inventor, if any Kirston Koths	
Fourth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of fifth inventor, if any William M. Kavanaugh	
Fifth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of sixth inventor, if any Li Long	
Sixth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

DECLARATION AND POWER OF ATTORNEY

Attorney Docket No.: PP021601.0003
27527/40666

Full name of seventh inventor, if any Arnold Horwitz	
Seventh inventor's signature	Date
Residence San Leandro, California	
Citizenship US	
Mailing Address 7529 Midfield Avenue Los Angeles, California	

Full name of eighth inventor, if any Maria Calderon-Cacia	
Eighth inventor's signature	Date
Residence Emeryville, California	
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Full name of sole or first inventor Cheng Liu	
Sole or first inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662-8097	

Full name of third inventor, if any Deborah L. Zimmerman	
Second inventor's signature	Date 3.18.2008
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

DECLARATION AND POWER OF ATTORNEY

Attorney Docket No.: PP021601.0003
27527/40666

Full name of third inventor, if any Gregory M. Harrowe	
Third inventor's signature	Date
Residence Eugene Oregon	
Citizenship US	
Mailing Address 2055 Sunrise Blvd. Eugene, Oregon 97405	

Full name of fourth inventor, if any Kirston Koths	
Fourth inventor's signature	Date
Residence Emeryville, California	
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Fifth inventor's signature	Date
Residence Emeryville, California	
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Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of sixth inventor, if any Li Long	
Sixth inventor's signature	Date
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Seventh inventor's signature	Date
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Mailing Address 7529 Midfield Avenue Los Angeles, California	

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Sole or first inventor's signature	Date
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Second inventor's signature	Date
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Attorney Docket No.: PP021601.0003
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Third inventor's signature <i>Gregory M. Harrowe</i>	Date 05/06/2008
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Citizenship US	
Mailing Address 2055 Sunrise Blvd. Eugene, Oregon 97405	

Full name of fourth inventor, if any Kirston Koths	
Fourth inventor's signature	Date
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Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of fifth inventor, if any William M. Kavanaugh	
Fifth inventor's signature	Date
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Citizenship US	
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Sixth inventor's signature	Date
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Sole or first inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662-8097	

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Second inventor's signature	Date
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Full name of fourth inventor, if any Gregory M. Harrowe	
Third inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of ^{fourth} fifth inventor, if any Kirston Koths	
Fourth inventor's signature <i>Kirston Koths</i>	Date 3/23/08
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of sixth inventor, if any William M. Kavanaugh	
Fifth inventor's signature	Date
Residence Emeryville, California	
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Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662-8097	

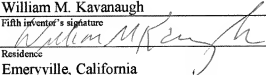
Full name of second inventor, if any Deborah L. Zimmerman	
Second inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

DECLARATION AND POWER OF ATTORNEY

Attorney Docket No.: PP021601.0003
27527/40666

Full name of third inventor, if any Gregory M. Harrowe	
Third inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of fourth inventor, if any Kirston Koths	
Fourth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of fifth inventor, if any William M. Kavanaugh	
Fifth inventor's signature 	Date MARCH 12, 2008
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of sixth inventor, if any Li Long	
Sixth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

DECLARATION AND POWER OF ATTORNEY

Attorney Docket No.: PP021601.0003
27527/40666

Full name of seventh inventor, if any Arnold Horwitz	
Seventh inventor's signature	Date
Residence San Leandro, California	
Citizenship US	
Mailing Address 7529 Midfield Avenue Los Angeles, California	

Full name of eighth inventor, if any Maria Calderon-Cacia	
Eighth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

M-CSF-SPECIFIC MONOCLONAL ANTIBODY AND USES THEREOF

the specification of which was filed on July 7, 2006, as Application No. 10/585,459.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to herein.

I acknowledge the duty to disclose all information known to me that is material to patentability in accordance with Title 37, Code of Federal Regulations, § 1.56.

FOREIGN PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

☐ no such foreign applications have been filed

☒ such foreign application have been filed as follows:

**EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

Application Number	Country	Date of Filing (dd/mm/yyyy)	Priority Claimed Under 35 USC 119
			___ Yes No ___
			___ Yes No ___
			___ Yes No ___

**ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS
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Application Number	Country	Date of Filing (dd/mm/yyyy)
PCT/US2005/000546	PCT	January 6, 2005

CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATIONS

I hereby claim priority benefits under Title 35, United States Code §119(e), of any United States provisional patent application(s) listed below:

☐ no such U.S. provisional applications have been filed.

☒ such U.S. provisional application have been filed as follows:

Application Number	Date of Filing (dd/mm/yyyy)	Priority Claimed Under 35 USC 119
60/535,181	January 7, 2004	<u> x </u> Yes No <u> </u>
60/576,417	June 2, 2004	<u> x </u> Yes No <u> </u>
		<u> </u> Yes No <u> </u>

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §120 of the United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose all information that is material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56 which became available to me between the filing date of the prior application and the national or PCT international filing date of this application:

☒ no such U.S./PCT applications have been filed.

☐ such U.S./PCT application have been filed as follows:

Application Number	Date of Filing (dd/mm/yyyy)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint:

All practitioners at Customer Number **04743**

jointly, and each of them severally, my attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the U. S. Patent and Trademark Office connected therewith.

Please mail all correspondence to Novartis AG whose address is:

Intellectual Property R-338
P.O. Box 8097
4560 Horton Street
Emeryville, California 94662-8097

Please direct telephone calls to: (510) 655-8730.

Please direct facsimiles to: (510) 655-3542.

Full name of sole or first inventor Cheng Liu	
Sole or first inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662-8097	

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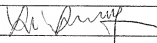
DECLARATION AND POWER OF ATTORNEY

Attorney Docket No.: PP021601.0003
27527/40666

Full name of third inventor, if any Gregory M. Harrowe	
Third inventor's signature	Date
Residence Eugene Oregon	
Citizenship US	
Mailing Address 2055 Sunrise Blvd. Eugene, Oregon 97405	

Full name of fourth inventor, if any Kirston Koths	
Fourth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

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Fifth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of sixth inventor, if any Li Long	
Sixth inventor's signature 	Date 4/14/09
Residence Emeryville, California Lafayette, CA	
Citizenship -US- CANADA	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662 3209 GREENHILLS DR LAFAYETTE, CA 94549	

Full name of seventh inventor, if any Arnold Horwitz	
Seventh inventor's signature	Date
Residence San Leandro, California	
Citizenship US	
Mailing Address 7529 Midfield Avenue Los Angeles, California	

Full name of eighth inventor, if any Maria Calderon-Cacia	
Eighth inventor's signature	Date
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I hereby appoint:

All practitioners at Customer Number **04743**

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Full name of sole or first inventor Cheng Liu	
Sole or first inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662-8097	

Full name of second inventor, if any Deborah L. Zimmerman	
Second inventor's signature	Date
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Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of third inventor, if any Gregory M. Harrowe	
Third inventor's signature	Date
Residence Eugene Oregon	
Citizenship US	
Mailing Address 2055 Sunrise Blvd. Eugene, Oregon 97405	

Full name of fourth inventor, if any Kirston Koths	
Fourth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of fifth inventor, if any William M. Kavanaugh	
Fifth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of sixth inventor, if any Li Long	
Sixth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

DECLARATION AND POWER OF ATTORNEY

Attorney Docket No.: PP021601.0003
27527/40666

Full name of ninth inventor, if any Arnold Horwitz	
Seventh inventor's signature <i>Arnold Horwitz</i>	Date 3/4/08
Residence San Leandro, California	
Citizenship US	
Mailing Address <i>Arnold Horwitz</i> 7329 Midfield Avenue 2720 Lakeview Drive Los Angeles, California San Leandro, CA 94577	

Full name of ninth inventor, if any Maria Calderon-Cacia	
Eighth inventor's signature	Date
Residence Emeryville, California	
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CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

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All practitioners at Customer Number **04743**

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Full name of sole or first inventor Cheng Liu	
Sole or first inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662-8097	

Full name of second inventor, if any Deborah L. Zimmerman	
Second inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of third inventor, if any Gregory M. Harrowe	
Third inventor's signature	Date
Residence Eugene Oregon	
Citizenship US	
Mailing Address 2055 Sunrise Blvd. Eugene, Oregon 97405	

Full name of fourth inventor, if any Kirston Koths	
Fourth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of fifth inventor, if any William M. Kavanaugh	
Fifth inventor's signature	Date
Residence Emeryville, California	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662	

Full name of sixth inventor, if any Li Long	
Sixth inventor's signature	Date
Residence Emeryville, California	
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DECLARATION AND POWER OF ATTORNEY

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Full name of seventh inventor, if any Arnold Horwitz	
Seventh inventor's signature	Date
Residence San Leandro, California	
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Mailing Address 7529 Midfield Avenue Los Angeles, California	

Full name of eighth inventor, if any Maria Calderon-Cacia	
Eighth inventor's signature <i>Maria Calderon-Cacia</i>	Date 5/23/09
Residence Emeryville, California CASTRO VALLEY, CA	
Citizenship US	
Mailing Address P.O. Box 8097 4560 Horton Street Emeryville, California 94662 5980 CASTLEBROOK DR. CASTRO VALLEY, CA 94552	